Step 1

KAMOTEQ Firmware Upload

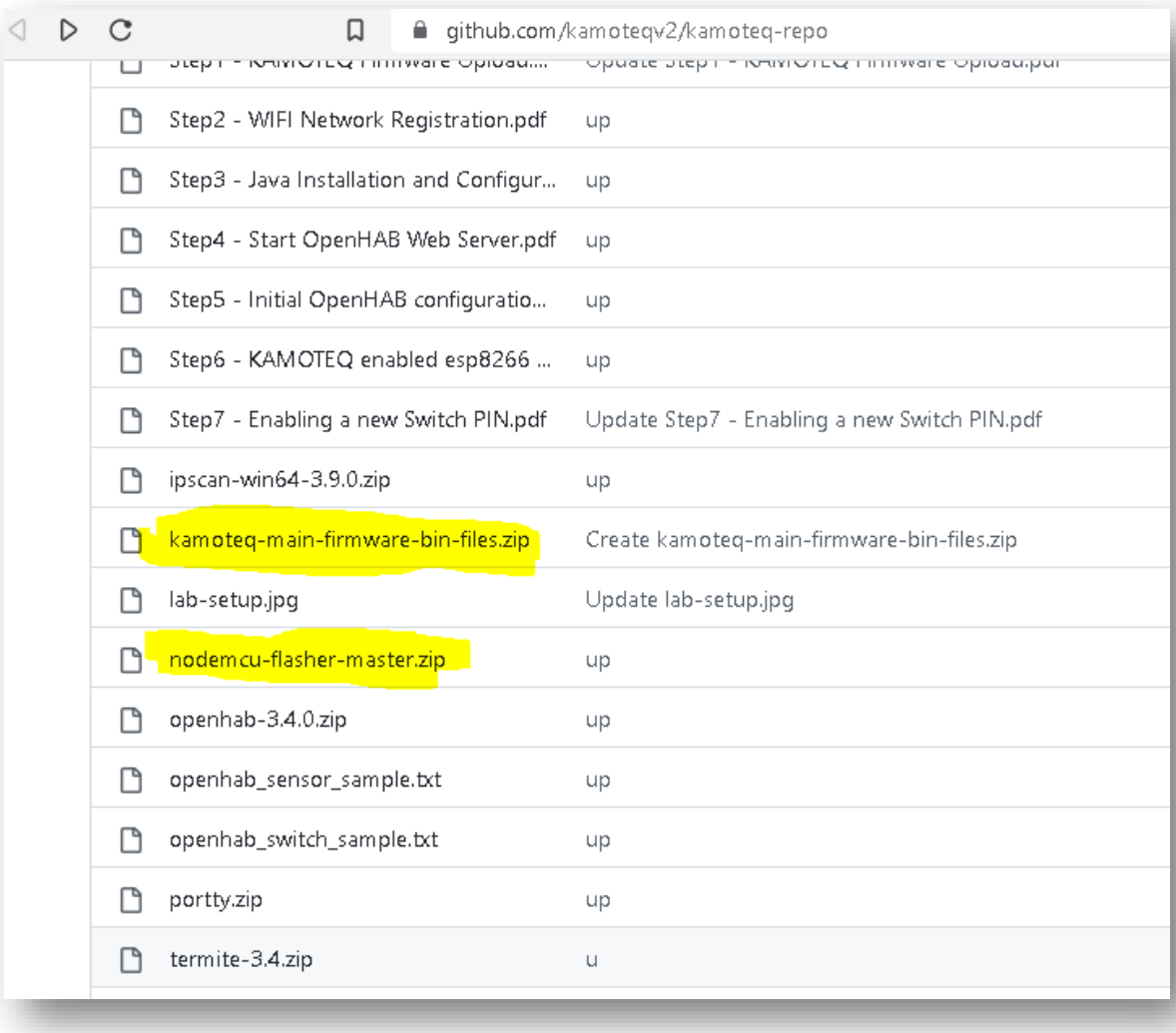
(I am using Windows 10 when doing this procedures)

Download the following files from the GitHub repository

a. kamoteq-main-firmware-bin-files.zip
b. nodemcu-flasher-master.zip

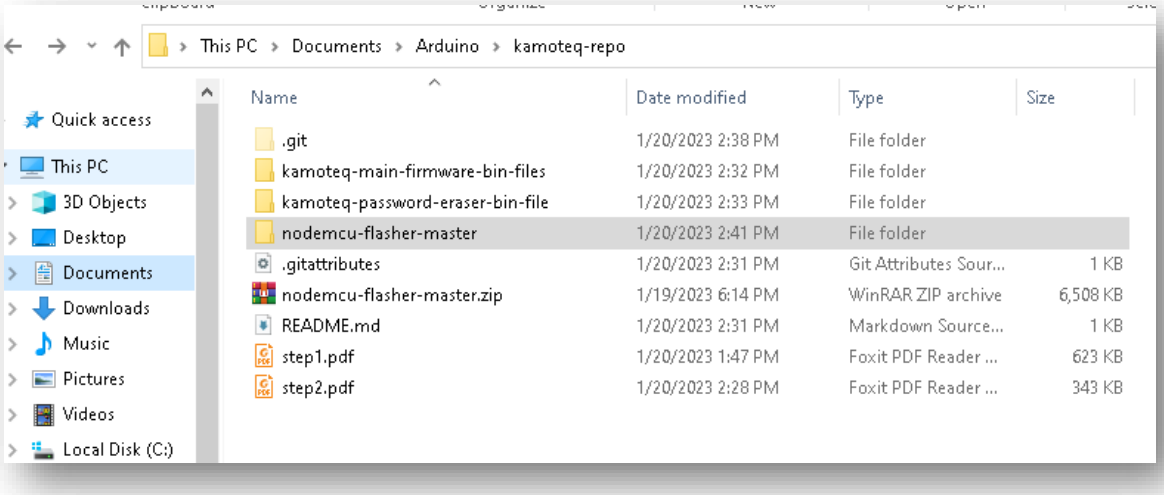
from https://github.com/kamoteqv2/kamoteq-repo

and save them on your computer

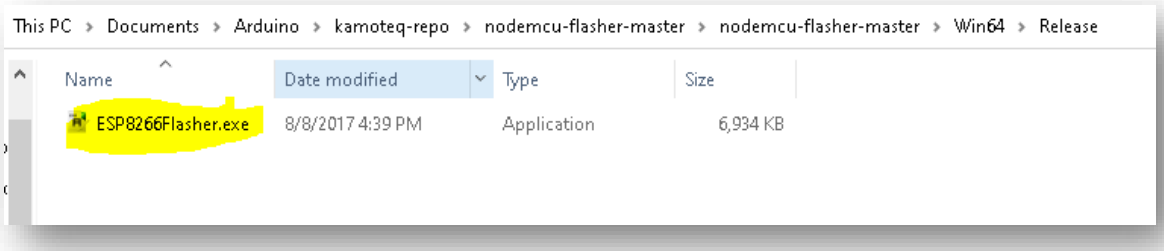


Extract both nodemcu-flasher-master.zip & kamoteq-main-firmware-bin-files.zip

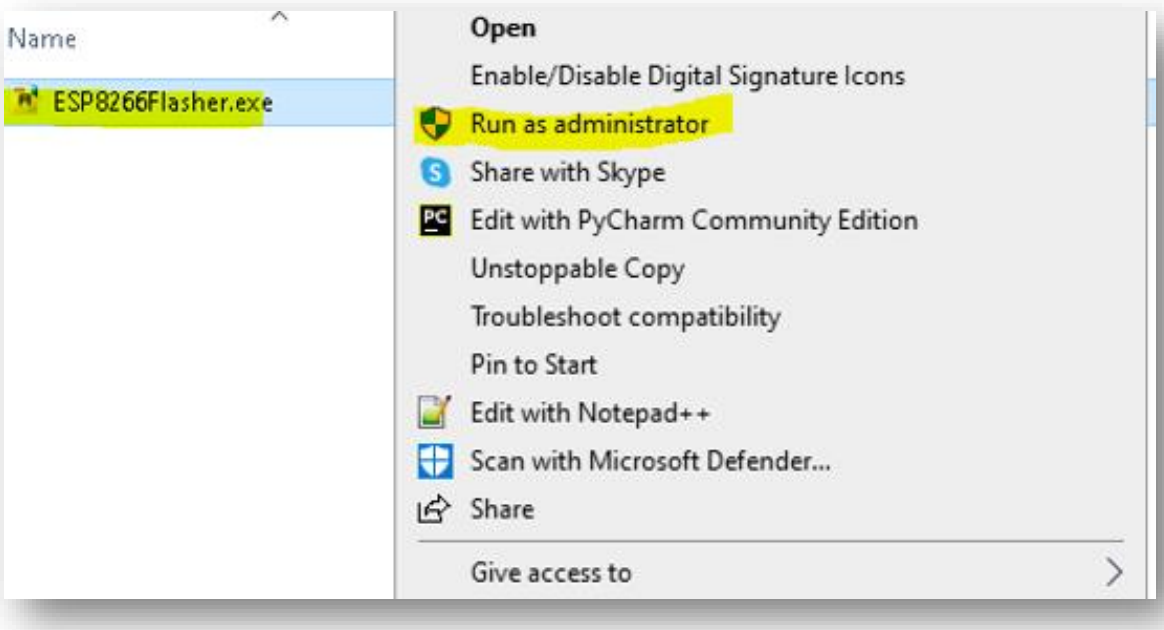
Open the “nodemcu-flasher-master” folder



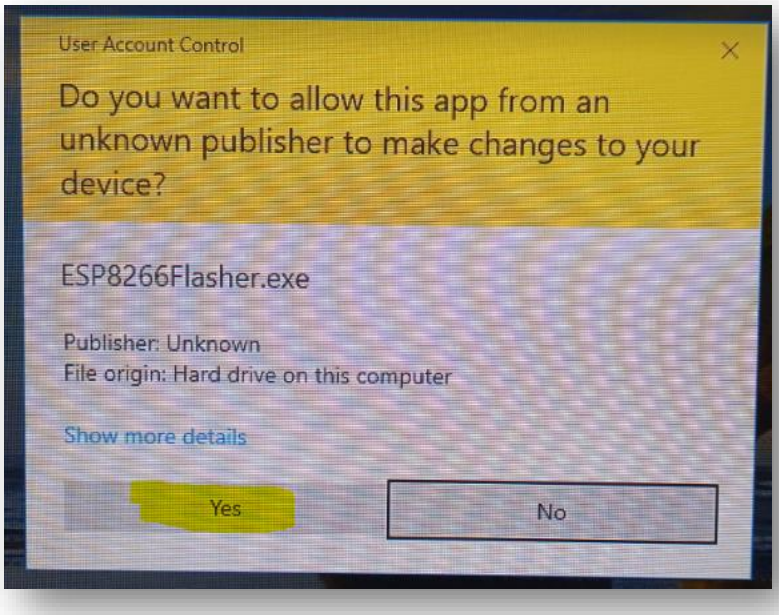
look for the ESP8266Flasher.exe inside the Win64\Release folders



Right-click the executable file and select the “Run as Administrator”



When asked to allow? You can click “Yes”

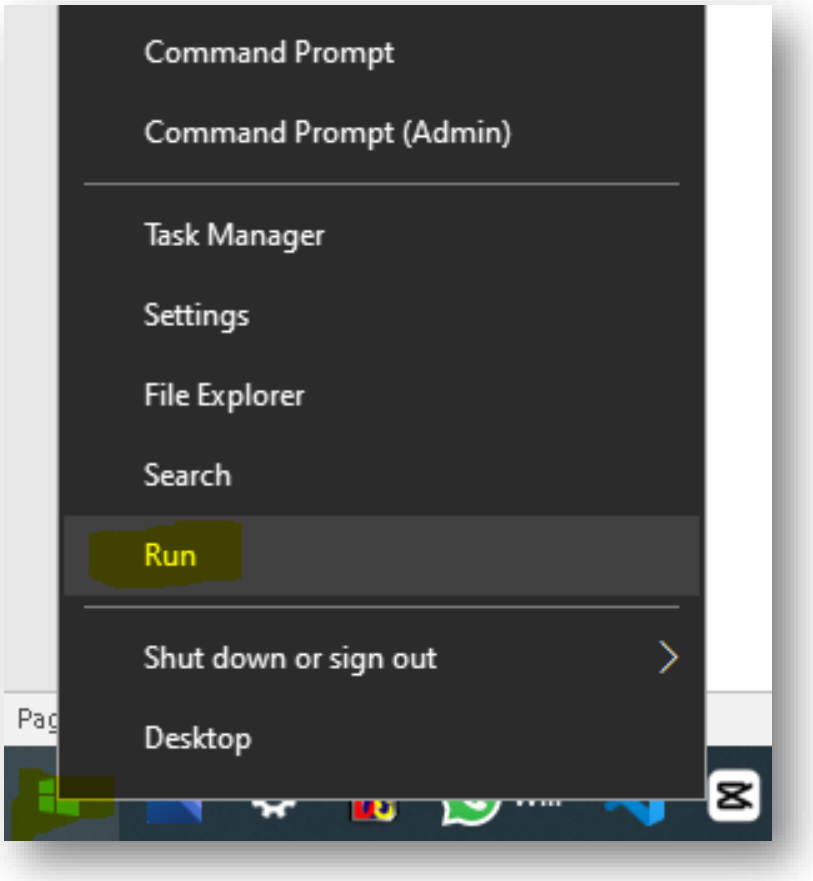


Connect the esp8266 nodeMCU to your computer using the micro-USB cable

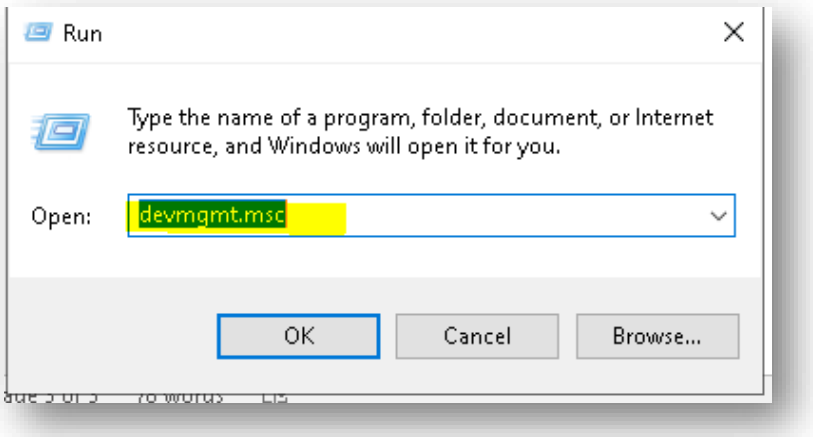
Make sure you place the nodeMCU in a non-conductive material to avoid damaging

The microcontroller.

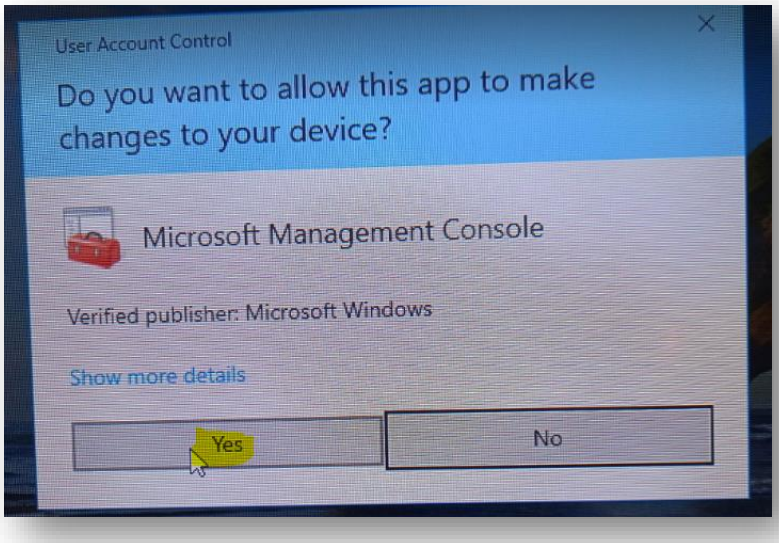
Open RUN by right-clicking Window Logo  and clicking “Run”



Enter “devmgmt.msc” to open the device manager

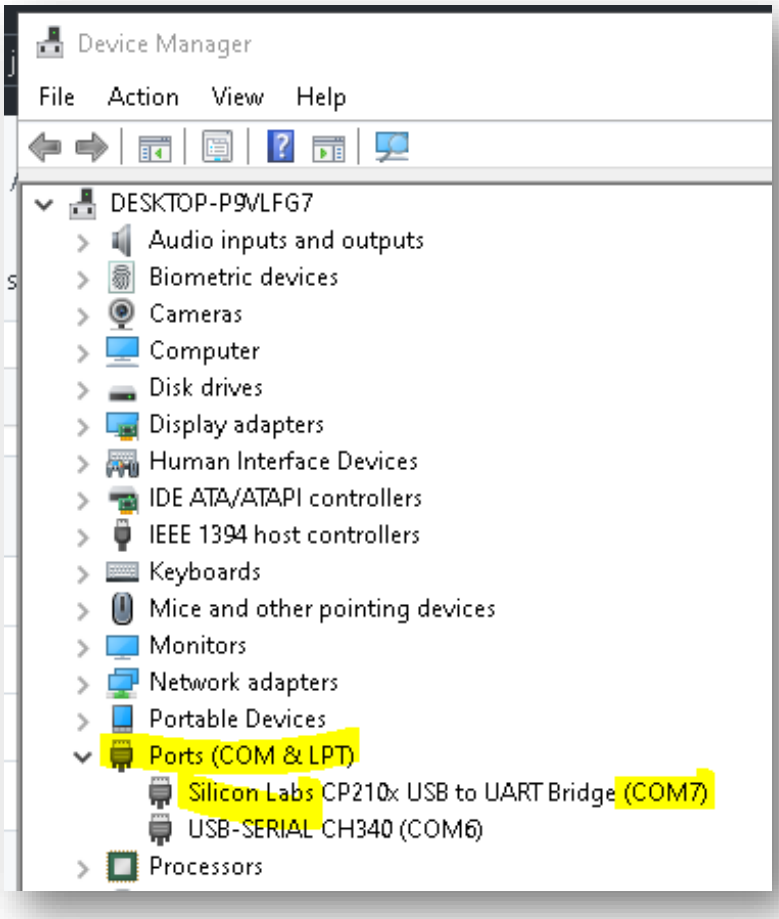


When asked/if it asked to allow the app just click “Yes”

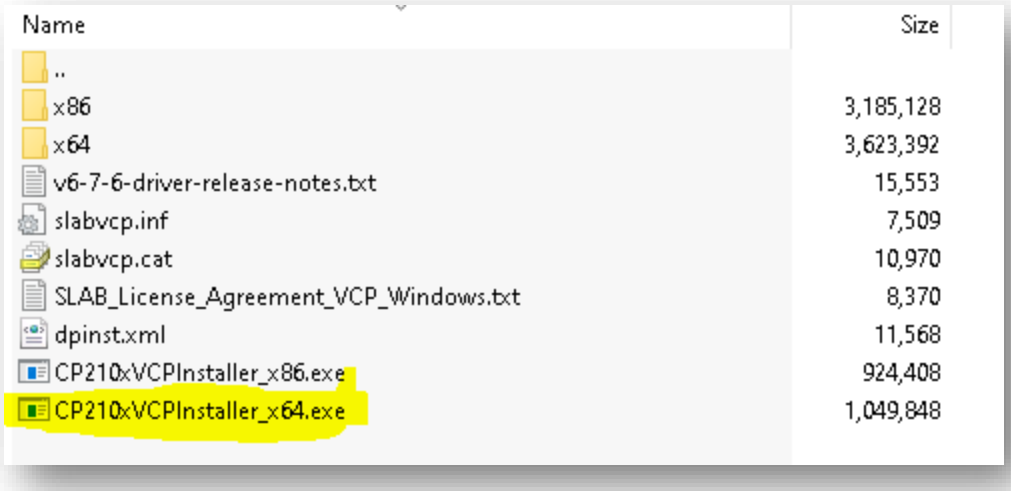


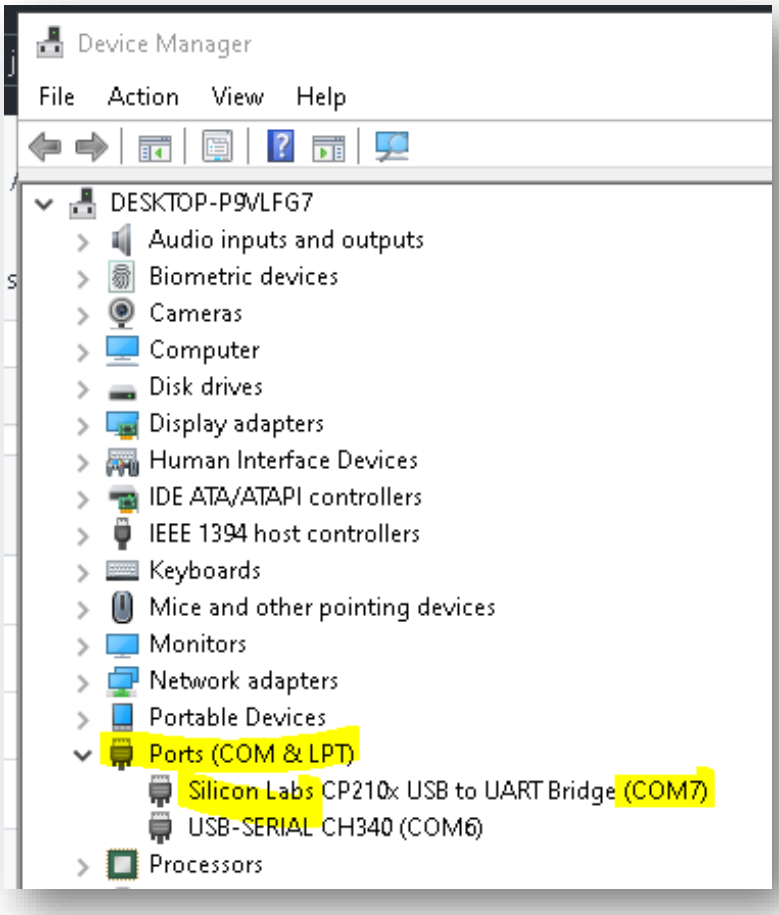
Expand the Ports (COM & LPT), and take note of the COM Port Number

And in below example, it's COM7



Note. If you cannot find the correct COM number because you suspected that
Windows Operating system is unable to correctly detect the driver
Then download and install the driver manually
Google Drive
or directly download from this link
https://www.silabs.com/documents/public/software/CP210x_Windows_Drivers.zip
extract the zipped folder and
run the below executable file CP210xVCPInstaller_x64.exe

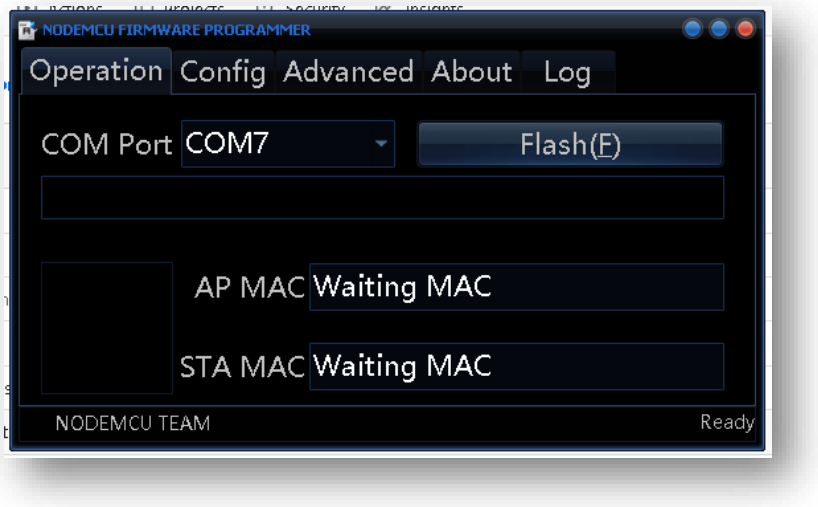

Name
Size
..
x86
3,185,128
x64
3,623,392
v6-7-6-driver-release-notes.txt
15,553
slabvcp.inf
7,509
slabvcp.cat
10,970
SLAB_License_Agreement_VCP_Windows.txt
8,370
dpinst.xml
11,568
CP210xVCPInstaller_x86.exe
924,408
CP210xVCPInstaller_x64.exe
1,049,848


Device Manager
File
Action
View
Help
DESKTOP-P9VLFG7
Audio inputs and outputs
Biometric devices
Cameras
Computer
Disk drives
Display adapters
Human Interface Devices
IDE ATA/ATAPI controllers
IEEE 1394 host controllers
Keyboards
Mice and other pointing devices
Monitors
Network adapters
Portable Devices
Ports (COM & LPT)
Silicon Labs CP210x USB to UART Bridge (COM7)
USB-SERIAL CH340 (COM6)
Processors

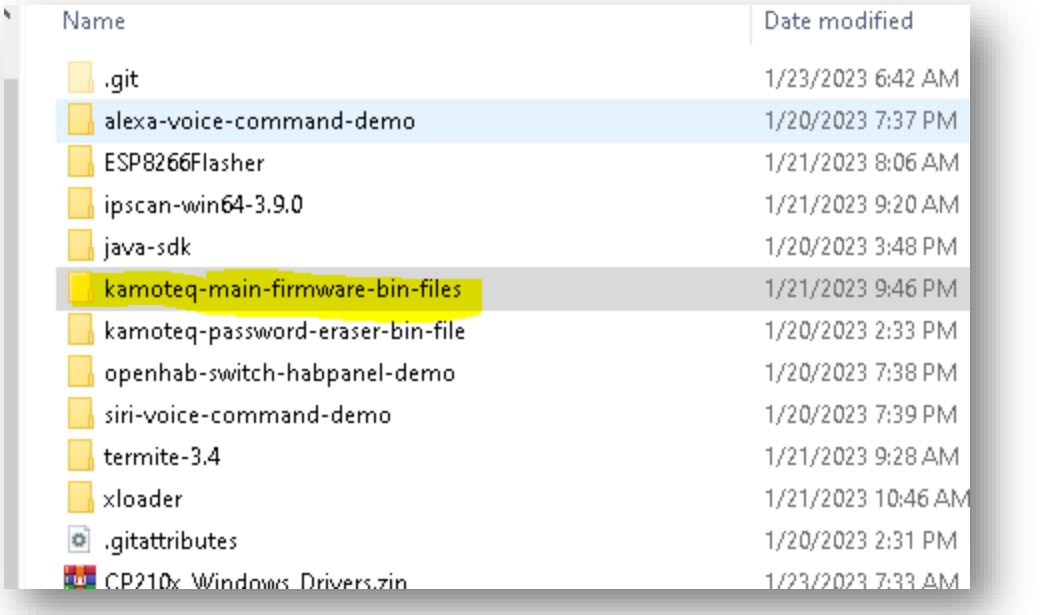
In the above example, we got COM7 but chances are this will be different from yours so make sure you follow the above steps and get the correct port number,

Now let's go back to the NodeMCU flasher and on the first tab "Operation" select the correct COM port number

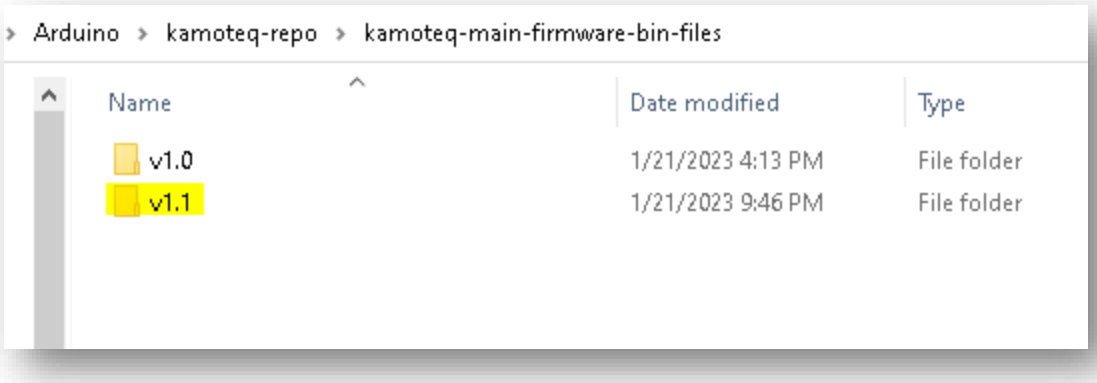
Example below



And on the "Config" tab click the small gear icon and find the Extracted folder "kamoteq-main-firmware-bin-files"

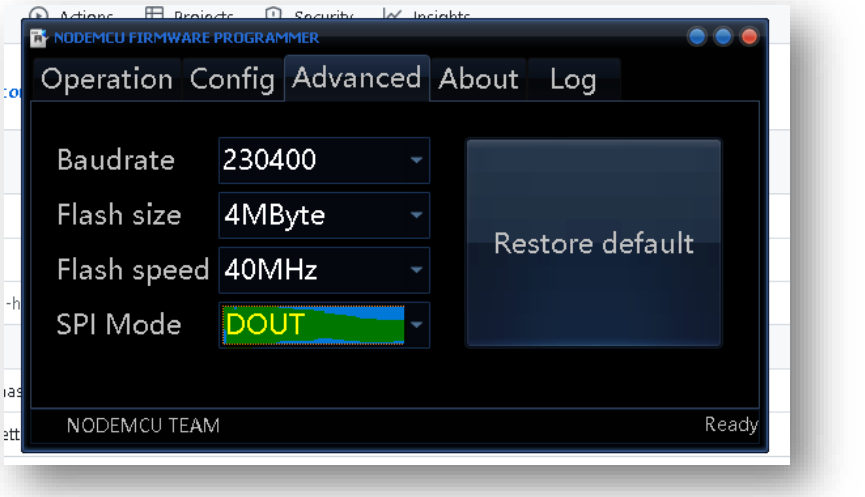


Always choose the folder with the highest version



Note: there are three bin files corresponding to the three DHT available models just select which one matches your currently connected DHT sensor
For example, if in your setup using a DHT22-type sensor then
you must select the "NodeMCU-ESP8266-DHT22.ino.nodemcu.bin"

And last, on the "Advance" tab leave everything default except!
The SPI Mode – change it to "DOUT"



Go back to the "Operation" tab and start the flashing,
Click the "Flash(E)" button now

This will take less than a minute or max of two minutes for slow computer, if it's taking you more than that, click Stop and verify the COM port number and the cable is properly connected on both PC/LAPTOP and nodeMCU device and try again.

If completed without error, then Congratulations! If in the

case you receive any error during the process, just repeat the steps again.

This completes STEP 1 (KAMOTEQ Firmware Upload)

Proceed to STEP 2 (WIFI Network Registration)

Disclaimer: Avoid interrupting the device during flashing this is a critical stage of the process It can make your device useless

Abruptly interrupted

End